

Application/Control Number: 09/874,872  
Art Unit: 2613

Docket No.: 2001-0161A

### **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method of encoding video content, the method comprising:  
segmenting the video content into video content portions;  
assigning a predefined model to each video content portion, the predefined model selected from a plurality of predefined models; and  
routing each video content portion to one of a plurality of encoders based on the model associated with each video content portion, each encoder being associated with one predefined model of the plurality of predefined models.
2. (Original) The method of claim 1, wherein the video content portions are video segments.
3. (Original) The method of claim 1, wherein the video content portions are video subsegments.
4. (Original) The method of claim 1, wherein the video content portions are video regions of interest.
5. (Original) The method of claim 1, wherein the plurality of encoders includes a generic model encoder.
6. (Original) The method of claim 5, wherein the predefined model assigned to each video content portion is chosen from a plurality of predefined video content models.

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7. (Original) The method of claim 6, wherein one of the plurality of predefined video content models includes a generic video content model.
8. (Original) The method of claim 7, wherein assigning a predefined model to each video content portion further comprises assigning the generic video content model to a video content portion if none of the other models from the plurality of predefined video content models is assigned to the video content portion.
9. (Original) A method of encoding video content, the method comprising:
  - extracting video portions from video content;
  - identifying video subsegments and regions of interest within the video portions;
  - assigning a predefined model to each video portion according to a characteristic of the video portion, the predefined model being chosen from a plurality of predefined models or a generic model;
  - encoding video portions associated with the generic model with a generic encoder;
  - and
  - encoding video portions associated with the plurality of predefined models with a encoder chosen from a plurality of encoders, each of the plurality of encoders being associated with one of the plurality of predefined models.
10. (Original) The method of claim 9, further comprising:
  - producing descriptors associated with the video portions of the video content; and
  - producing descriptors associated with the video subsegments and regions of interest.

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11. (Original) The method of claim 10, further comprising:  
encoding the descriptors associated with the video portions, video subsegments and regions of interest.
12. (Original) The method of claim 11, wherein the descriptors associated with the video portions, subsegments and regions of interest are used to determine whether a generic encoder or an encoder from the plurality of encoders was used to encode the video content portions.
13. (Currently Amended) A method of encoding video content, the method comprising:  
segmenting the video content into video content portions;  
if a video content portion relates to one of a plurality of predefined models, assigning the video content portion to a related, predefined model chosen from the plurality of predefined models;  
if a video content portion does not relate to one of the plurality of predefined models, assigning the video content portion to a generic model;  
encoding the video content portions associated with the generic model using a generic encoder; and  
encoding the video content portions associated with one of the predefined models with an encoder from a plurality of encoders, each encoder of the plurality of encoders being associated with one predefined model of the plurality of predefined models.
14. (Original) The method of claim 13, wherein each encoder from the plurality of encoders is associated with one of the predefined models of the plurality of predefined models.

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15. (Original) A method of encoding video content divided into a plurality of portions, each portion being associated with either a generic model or a model chosen from a plurality of predefined models, the method comprising:

routing each portion associated with the generic model to a generic encoder; and

routing each portion associated with a model of the plurality of predefined models to

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